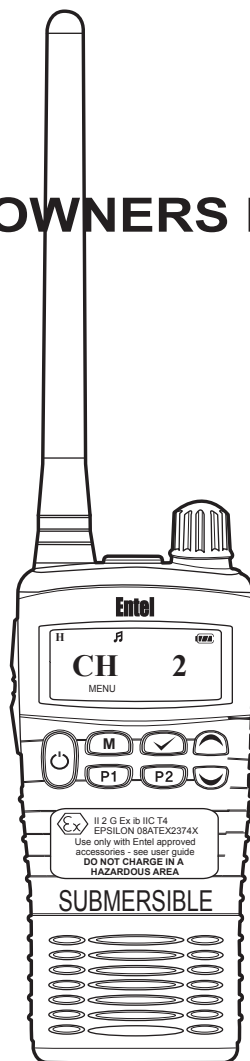


HT981 / 917

v04/08

UHF submersible transceiver

OWNERS MANUAL



ATEX approved
Intrinsically Safe

II 2 G
Ex ib IIC T4

Submersible
Dependable
Tough

Entel UK

CE COMPLIANCE STATEMENT

All HT981 / HT917 transceivers display "CE" on the serial number label, indicating compliance with all relevant EC directives.

DECLARATION OF CONFORMITY

We Entel UK Limited,

OF:

4 Elstree Gate, Elstree Way
Borehamwood, Herts
WD6 1JD
United Kingdom

Declare under our sole responsibility that the product:-
HT981 UHF / HT917 Lowband VHF handheld transceiver

Serial Number

To which this declaration relates, is in accordance with directive 95/5/EC and conforms to the following standard or other nominative documents:-

EN 300 086-2 V1.1.1, EN 301 489-1 V1.5.1:2003, EN 60065:2002

Following provisions of the R&TTE directive.

And

Directive 94/9/EC (ATEX)

Harmonised Standards:

BS EN 60079-0:2006

BS EN 60079-11:2007

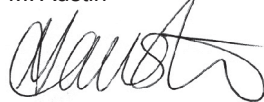
Notified Body 1712

Epsilon Compliance Services

Deeside Lane, Chester CH1 6DD

Certificate number EPSILON 08ATEX2374X

M. Austin



Quality Manager

March 2008



1.1 PREPERATION PRIOR TO USE

1. ATTACHING THE BELT CLIP

Align the belt clip with the plastic slots of the battery pack. Slide the belt clip downwards onto the battery pack, pushing firmly until a click is heard.

2. BATTERY REMOVAL/ATTACHMENT

1. Turn the transceiver off.
2. Hold the radio and rotate the battery release screw anti-clockwise.

Ensure that you do not hold the battery pack when unscrewing the release screw as the radio will fall to the floor!

3. To attach the battery: firstly, place the battery against the bottom of the radio, then hinge the battery into place against the transceiver. Rotate the battery locking screw clockwise until finger tight Do not over tighten the screw.

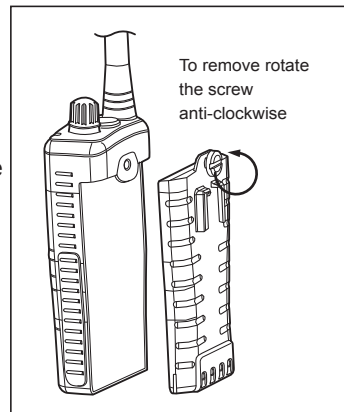


Figure 1.
Battery removal / Attachment

1.2 ATTACHING AUDIO ACCESSORIES

Remove the accessory connector cover located on top of the radio by rotating its screw anti-clockwise.

Locate the audio accessory plug on top of the socket and rotate the locking screw clockwise until finger tight (do not use a screwdriver or coin etc).

Note: The accessory socket is only waterproof with either the accessory socket cover in place or with an accessory connected.

(Refer to certificate EPSILON 08 ATEX 2374X for permitted accessories)

Models suffixed S have alternative frequency ranges but are identical in operation to the models without the suffix.

1.3 CONTROLS AND INDICATORS

1. ON/OFF BUTTON

Momentarily press to switch on. Press and hold to switch off.

2. VOLUME CONTROL

Rotate clockwise to increase received volume. Rotate anticlockwise to reduce received volume.

3. PUSH TO TALK SWITCH

Hold down to transmit, release to receive.

4. UP/DOWN buttons

Select the desired channel by pressing the UP/DOWN buttons. For fast channel selection hold down for more than 1 second.

5. LAMP/LOCK button

Momentarily press to turn backlight on/off. Press and hold to turn backlight on / off. Press and hold to turn monitor on / off.

6. P1 & P2 buttons

Dealer programmable.

7. ✓ button

Enter/Select.

8. M button

Menu select button.

9. MON buttons

Dealer programmable.

10. ANTENNA

Connects the supplied flexible antenna or an optional external aerial adaptor

11. BATTERY

Rechargeable Lithium-Ion battery packs.

12. ACCESSORY SOCKET

To connect to an Entel approved audio accessory

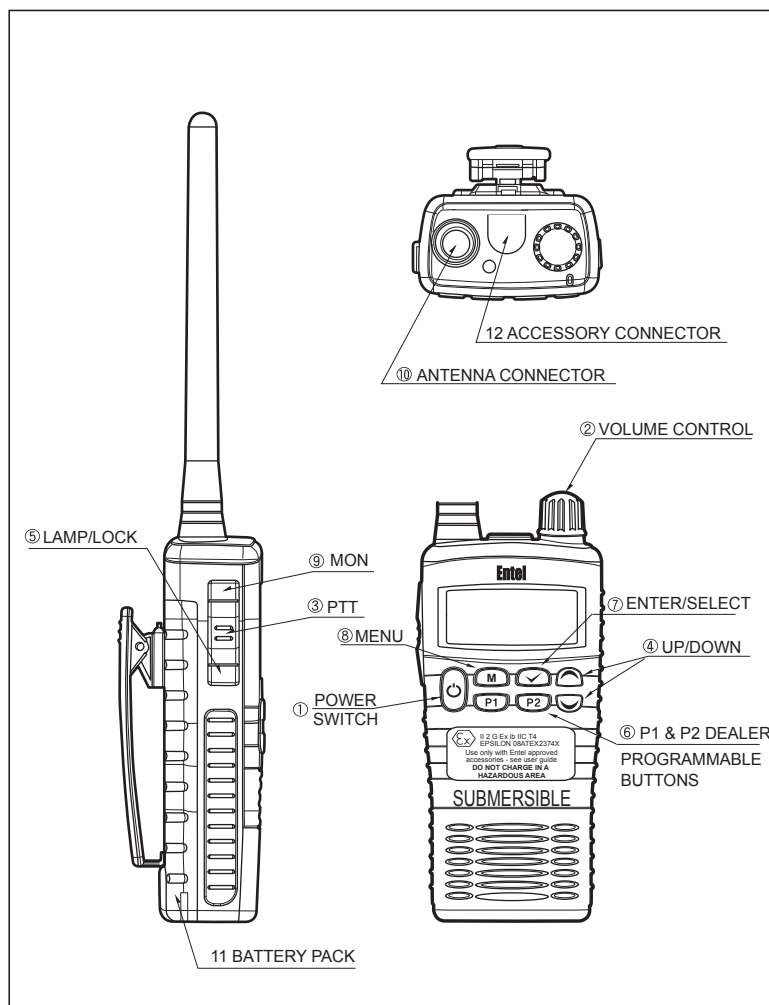


Figure 2. CONTROLS & INDICATORS

1.4 LCD INDICATORS

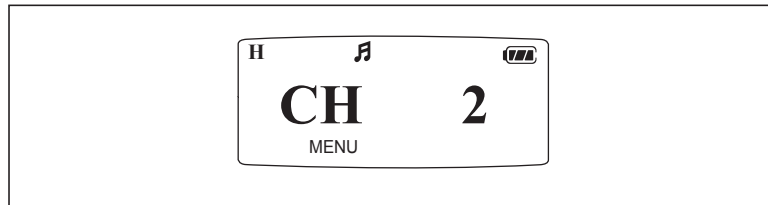


Figure 3. LCD indications

CHANNEL DISPLAY

The operating channel.



Appears when key bleep sound is turned on.

H/L

Indicates High or Low power selected.

SCAN

Appears when scan is activated.

VOX

Voice operated mode enabled.



The keypad is locked.



The Lithium-Ion battery of your transceiver is continually monitored for your convenience and safety.

MON

Indicates CTCSS/DSS disabled on receive allowing monitoring of the channel.

1.5 RECEPTION

1. Turn the transceiver on by momentarily pressing the power button.
A power on tone is generated after 1 second to indicate the transceiver has passed its self-diagnostic test. Select the desired audio level by rotating the volume control clockwise.
2. Select the desired channel using the [UP/DOWN] buttons.
3. When receiving a signal the LED indicator illuminates green.

1.6 TRANSMISSION

1. Perform steps 1 through 3 of RECEPTION.
2. Before transmitting, monitor the channel and make sure it is clear.
3. When receiving a signal, wait until the signal stops before transmitting.
The transceiver cannot transmit and receive simultaneously.
4. Press the [PTT] (push-to-talk) switch to begin your transmission.
To confirm transmission in progress the LED illuminates RED.
5. Holding the transceiver 2 inches from your mouth speak slowly and clearly into the microphone.
6. When the transmission is finished, release the [PTT] switch.

1.7 BATTERY SAFETY

The battery pack of your transceiver contains lithium-ion cells.

This type of battery stores a charge powerful enough to be dangerous if misused or abused, especially when removed from the transceiver.

Please observe the following precautions:

DO NOT SHORT BATTERY PACK TERMINALS

Shorting the terminals that power the transceiver can cause sparks, severe over heating, burns, and battery cell damage.

If the short is of sufficient duration, it is possible to melt the battery components. Do not place a loose battery pack on or near a metal surface or objects such as paper clips, keys, tools etc.

When the battery pack is installed on the transceiver, the terminals that transfer current to the transceiver are not exposed.

The terminals that are exposed on the battery pack when it is mounted on the transceiver are charging terminals only and do not constitute a hazard.

DO NOT INCINERATE

Do not dispose of your battery in a fire or incinerator.

The heat of fire may cause battery cells to explode and/or release dangerous gases.

DISPOSE OF BATTERY PACKS PROPERLY

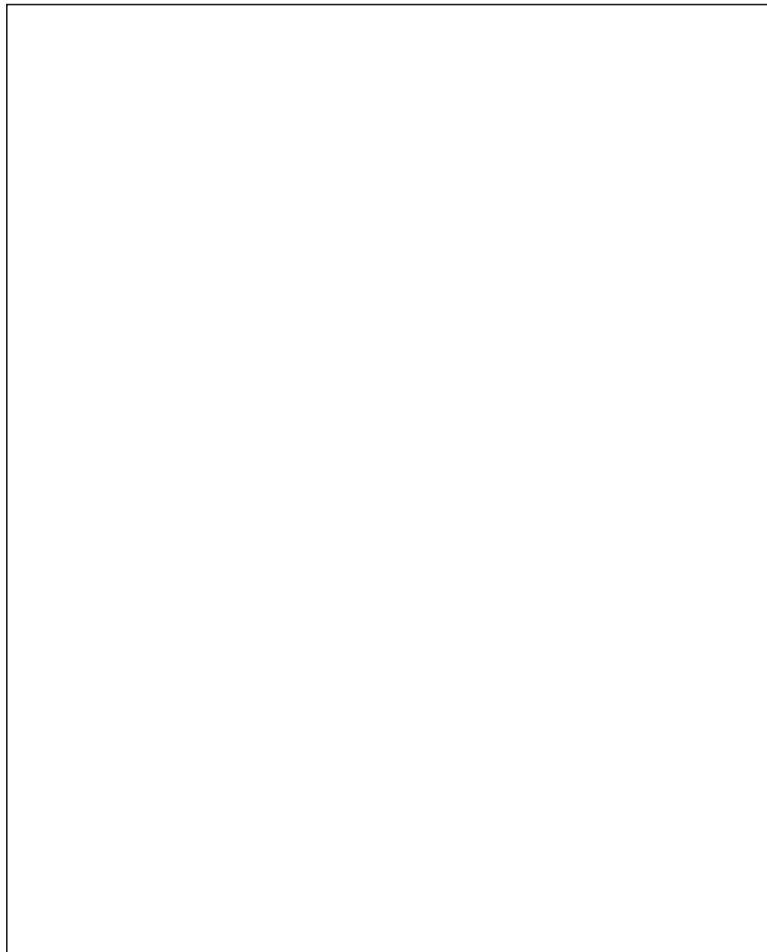


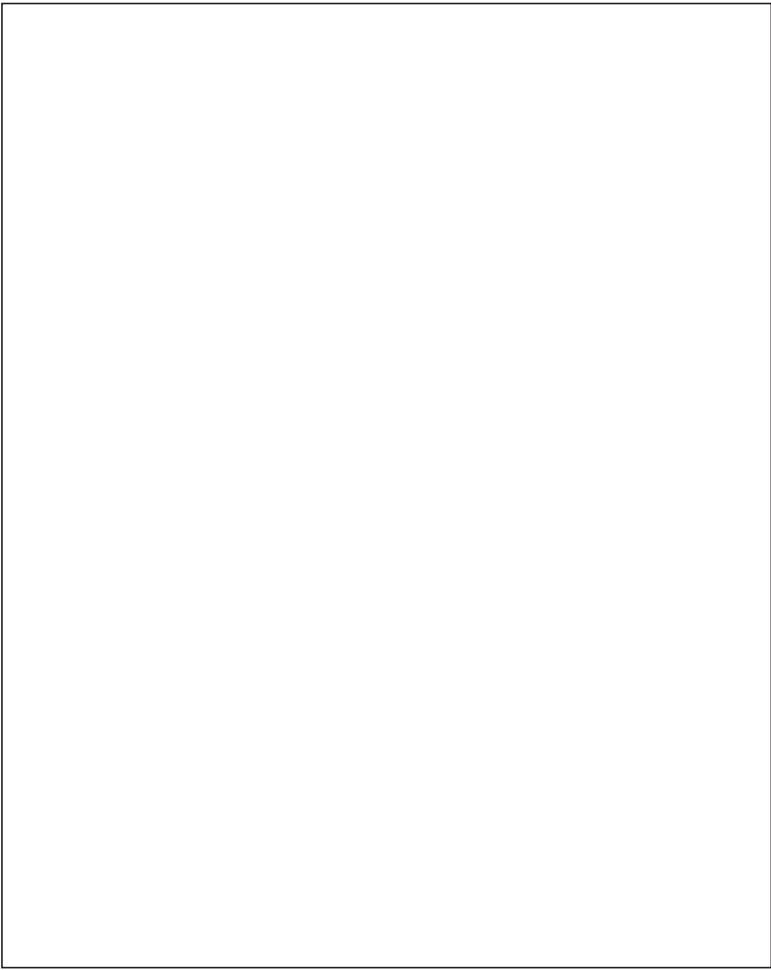
Lithium-ion battery packs must be recycled or disposed of properly.

For requirements in your area, check with the dealer from whom you purchased your transceiver.

1.8 NOTES

Use this page to record important information, such as the serial number of your HT900 V2R1 Series transceiver, and any of the frequencies and sub-tones programmed by your dealer.

A large, empty rectangular box with a thin black border, intended for recording notes as instructed in the text above.



Certification

ATEX approved

Intrinsically Safe

EPSILON 08ATEX2374X



II 2 G
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- ▶ The HT981/HT917 must always be used within the terms of its certification.
- ▶ Keep the HT981/HT917 away from aggressive substances. If used in a hostile environment, extra protection may be needed.
- ▶ To prevent ignition of hazardous atmospheres, batteries must only be charged in an area known to be non hazardous.
- ▶ No unauthorised repairs are permitted.
- ▶ This equipment is designed and manufactured to protect against other hazards as defined in paragraph 1.2.7 of Annex II of the ATEX Directive 94/9/EC
- ▶ HT900 series radios must not be used outside of the ambient temperature range Tamb = -20°C to +40°C
- ▶ The battery pack must be recharged only with one of the ENTEL battery chargers listed below:
 - CSAHT 1-way intelligent rapid charger, 110-230v
 - CSBHT 6-way intelligent, rapid charger, 110-230v
 - CCA230 1-way trickle charger with 230V mains adapter
 - CCA110 1-way trickle charger with 110V mains adapter
 - CCA12 1-way trickle charger with cigar lighter lead, 12V DC operation
- ▶ Refer to certificate EPSILON 08 ATEX 2374X for permitted accessories

CE0891!

Registered Community Design Application 000044375

U.S. Design Patent Pending No. 29/183,829

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